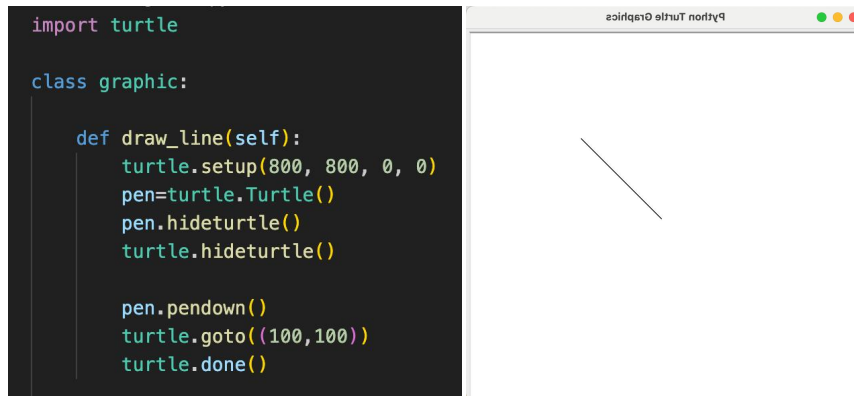


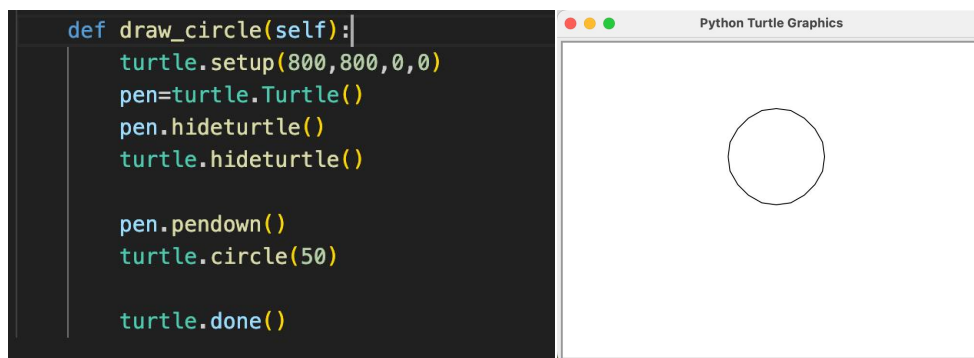
Assignment3

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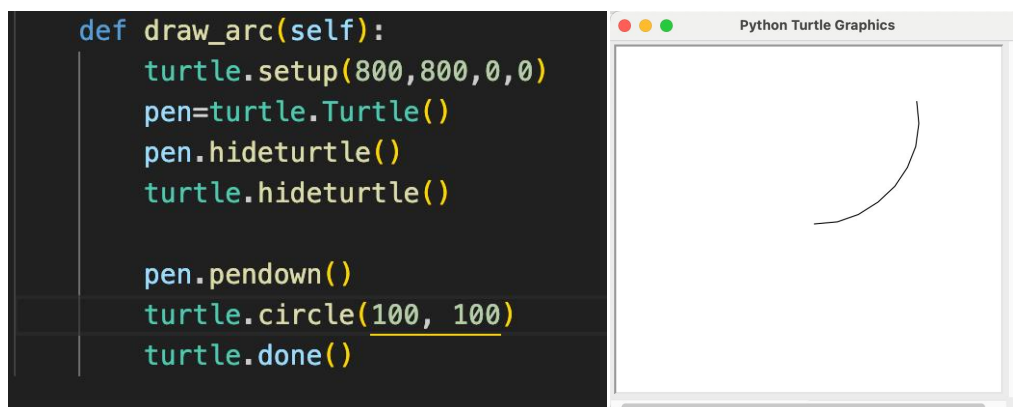
Line



Circle



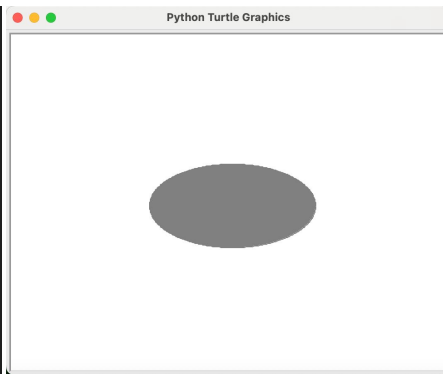
Arc



Ellipse

```
def draw_ellipse(self, x, y, width, height, color='black'):
    turtle.setup(800,800,0,0)
    turtle.penup()
    turtle.goto(x+width/2, y)
    turtle.pendown()
    turtle.color(color)
    turtle.begin_fill()

    for i in range(360):
        angle=i*3.14159/180
        dx=width/2*math.cos(angle)
        dy=height/2*math.sin(angle)
        turtle.goto(x+dx, y+dy)
    turtle.end_fill()
    turtle.hideturtle()
    turtle.done()
```



Rectangle

```
54 def draw_rectangle(self, width=60, height=100):
55     turtle.setup(800, 800, 0, 0)
56     pen = turtle.Turtle()
57     pen.hideturtle()
58     pen.penup()
59
60     start_x = -width / 2
61     start_y = height / 2
62     pen.goto(start_x, start_y)
63     pen.pendown()
64
65     pen.forward(width)
66     pen.right(90)
67     pen.forward(height)
68     pen.right(90)
69     pen.forward(width)
70     pen.right(90)
71     pen.forward(height)
72     pen.right(90)
73
74     turtle.done()
75
```

